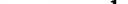


## CLAIMS

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Cvz* 1 A method, including steps of sending data between a client and a server at an address agreed by said client and said server;

wherein said steps of sending data are responsive to a request or a response from a client and said server; and

wherein said steps of sending data are asynchronous with regard to said request or said response. 

2. A method as in claim 1, wherein

said request or said response includes at least some control information;

and

said steps of sending data are responsive to said control information.

3. A method as in claim 1, wherein

said request or said response includes at least one memory address;

said steps of sending data are responsive to said memory address, wherein

19 said data is read from or written to a memory in response to said memory address.

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#### 4. A system including

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1 a NUMA communication link coupled to said client and server;  
2 a request from said client to server or a response from said server to client;  
3 and  
4 a data transfer between said client and server;  
5 wherein said data transfer has a time that is decoupled from a time of said  
6 request or response; and  
7 wherein said data transfer has a location that is mutually agreed between  
8 said client and server.

9  
10 5. A system, as in claim 4, also including a byte serial communication  
link.

11 6. A system as in claim 4, wherein  
12 either said client or server performs processing of information in said data  
13 transfer;  
14 said processing is performed in an order convenient to both said client and  
15 server; and  
16 said order is decoupled from an order of said data transfer.

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19 7. A system as in claim 4, wherein said data transfer is responsive to  
20 control information in said request or response.

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1           8.    A system as in claim 4, wherein said data transfer is responsive to  
2    said request or response.

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4           9.    A system as in claim 4, wherein said data transfer uses said NUMA  
5    communication link.

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7           10.   A system as in claim 4, wherein said mutually agreed location is  
8    responsive to control information in said request or response.

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10          11.   A system as in claim 4, wherein said request or response uses said  
11    byte serial communication link.

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13          12.   A system including  
14            a server, said server having a memory including a client communication  
15    region and a data transfer region;

16            a remote DMA communication link coupled to said data transfer region;  
17            said client communication region including information regarding a data  
18    transfer into or out of said data transfer region;  
19            said data transfer being decoupled in time from said client request region.

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21          13.   A system as in claim 12, including a byte serial communication link  
22    coupled to said client communication region.

1           14. A system as in claim 12, including a processing element in said  
2 server coupled to said data transfer region, said processing element responsive to a  
3 request from a client or a response to a client.

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5           15. A system as in claim 12, including a processing element in said  
6 server coupled to said data transfer region, said processing element responsive to control  
7 information in said client communication region.

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9           16. A system as in claim 12, including a processing element in said  
10 server coupled to said data transfer region, said processing element using information in  
11 said data transfer region independently of said remote DMA communication link.

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13           17. A system as in claim 12, including a request from a client or a  
14 response to said client having information regarding a location within data transfer  
15 region.

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17           18. A system as in claim 12, wherein said client communication region  
18 stores a request from a client or a response to said client.

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20           19. A system as in claim 12, wherein said data transfer region stores a  
21 data transfer to or from a client.

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1           20. A system as in claim 12, wherein said remote DMA communication  
2 link includes a NUMA communication link.

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4           21. A method including  
5           communicating file system requests and responses between a client and a  
6 file server;  
7           sending data between said client and said file server using a memory access  
8 operation at an address agreed by said client and said file server, wherein said address is  
9 responsive to information in said requests or said responses.

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11           22. A method as in claim 21, wherein said memory access operation  
12 includes a DMA operation.

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16           23. A method as in claim 21, wherein said memory access operation  
17 includes a remote DMA operation.

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19           24. A method as in claim 21, wherein said client includes a database  
20 server.

21

22           25. A method including  
23           communicating database requests and responses between a client and a  
24 database server;

1                    sending data between said client and said database server using a memory  
2    access operation at an address agreed by said client and said database server, wherein  
3    said address is responsive to information in said requests or said responses.

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5                    26.    A method including  
6                    communicating requests and responses between a client and a server;  
7                    sending data between said client and said server using a memory access  
8    operation at an address agreed by said client and said server, wherein said address is  
9    responsive to information in said requests or said responses.

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10                    27.    A method as in claim 26, including  
11                    receiving said data at one of said client or at said server in a first order; and  
12                    processing said data at said one device in a second order unrelated to said  
13                    first order.

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